

FIG. 1

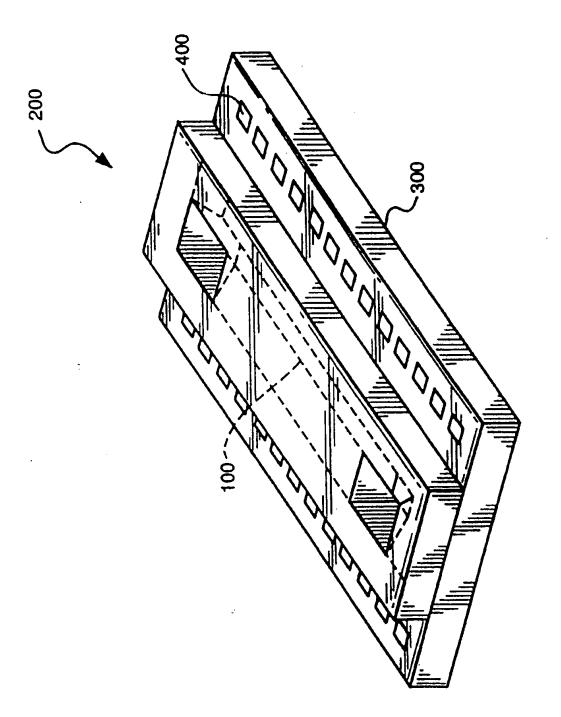
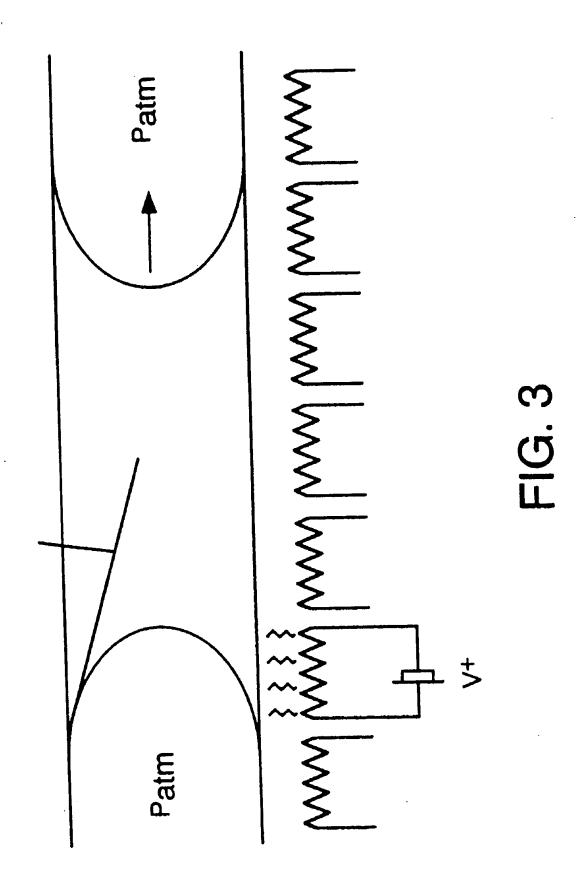


FIG. 2



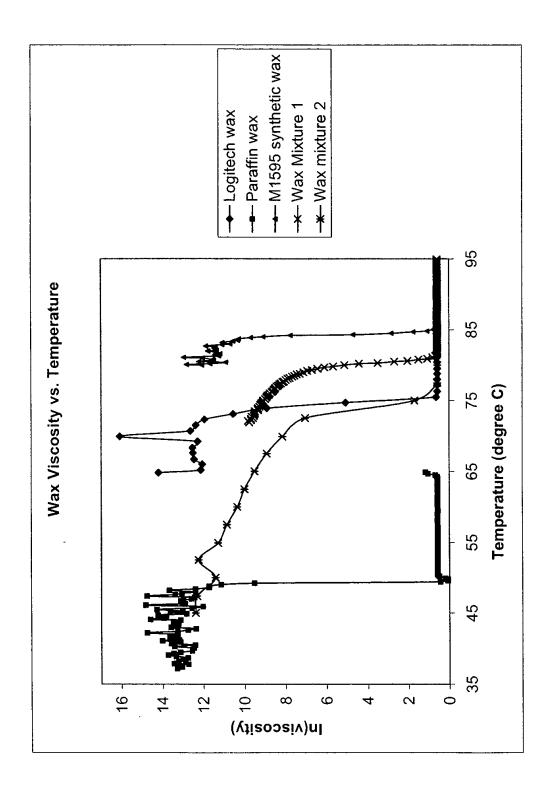


Figure 4

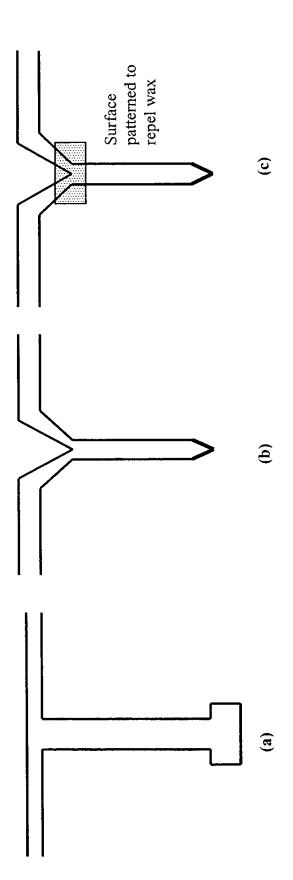


Figure 5

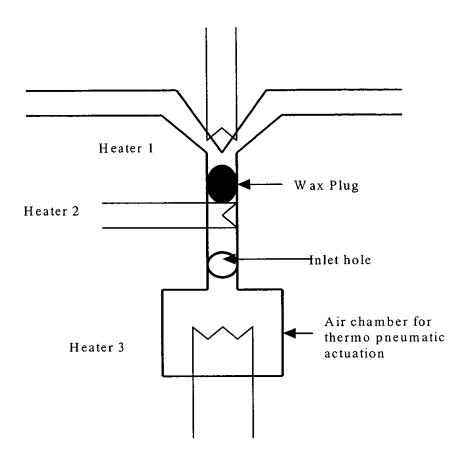


Figure 6

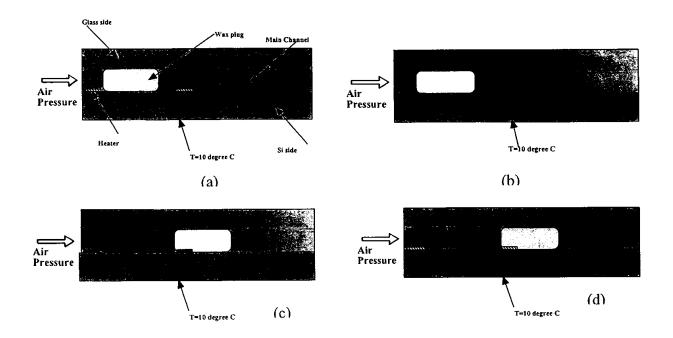


Figure 7

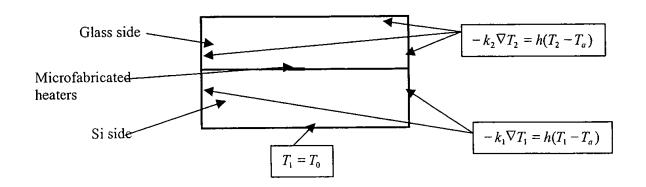


Figure 8

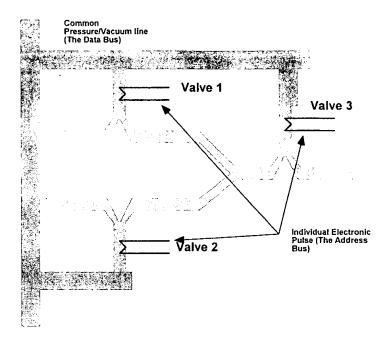


Figure 9

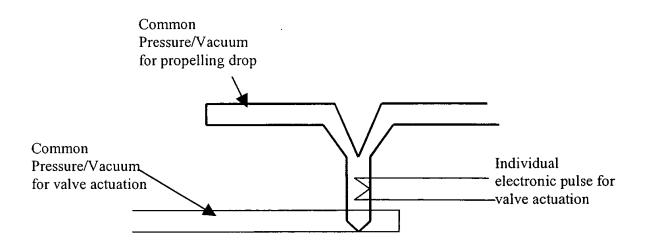


Figure 10

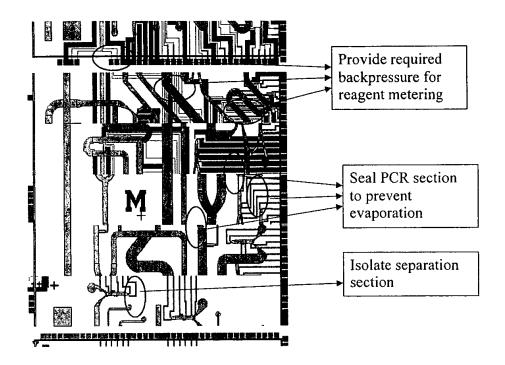


Figure 11

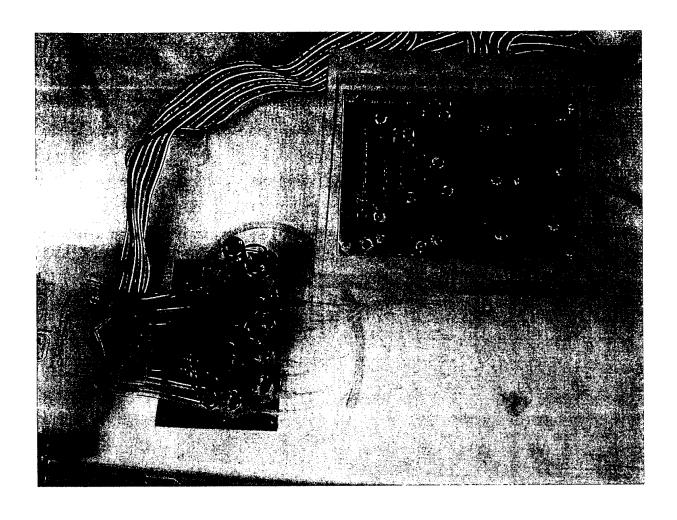


Figure 12

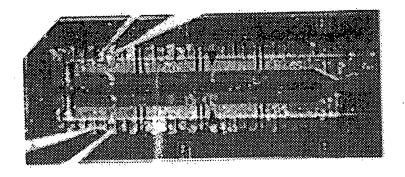


Figure 13a

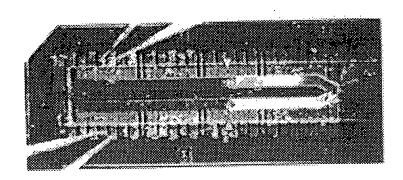


Figure 13b

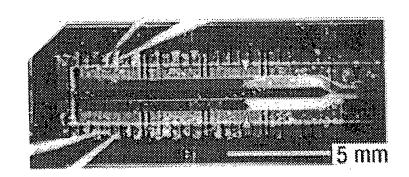


Figure 13c

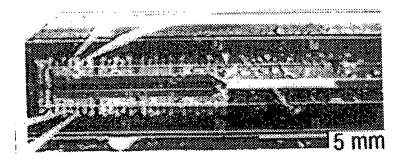


Figure 13d

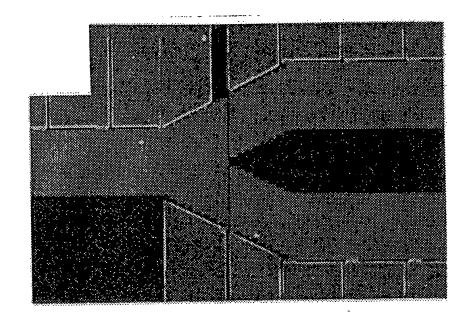


Figure 14a

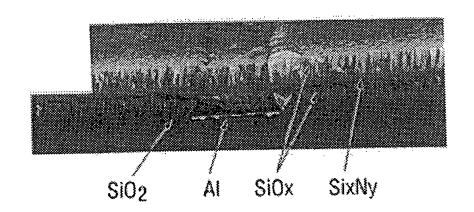


Figure 14b

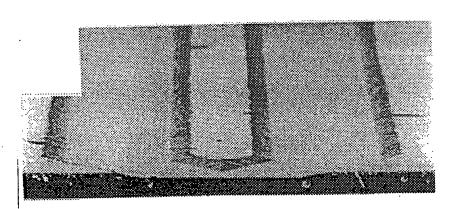


Figure 14c

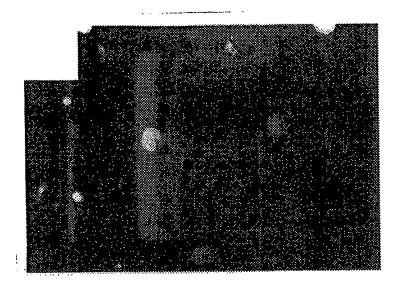


Figure 15a

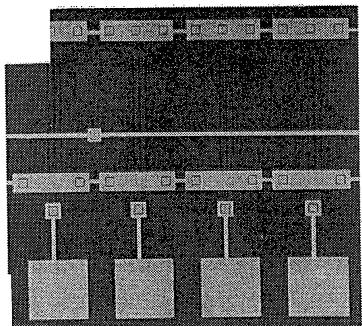


Figure 15b

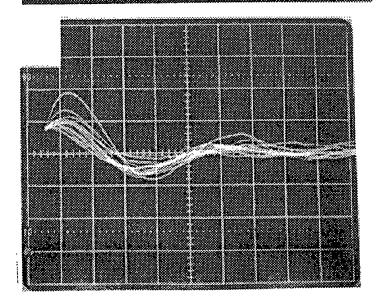


Figure 15c

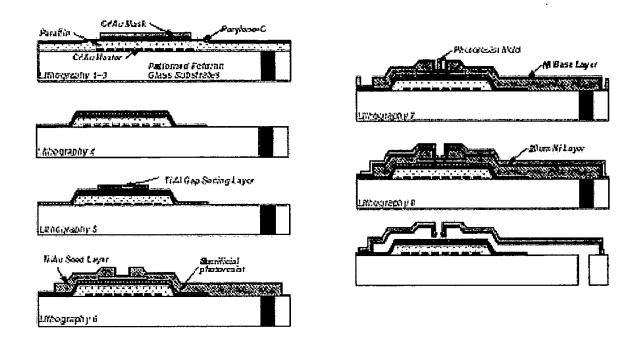
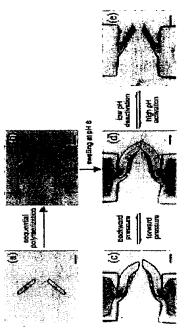
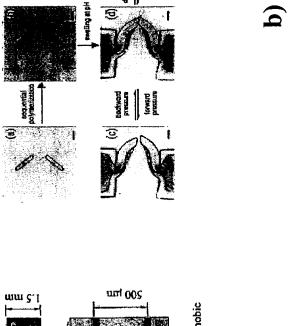
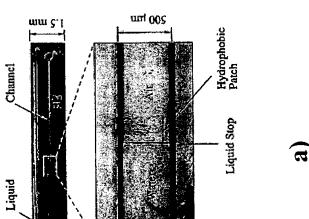
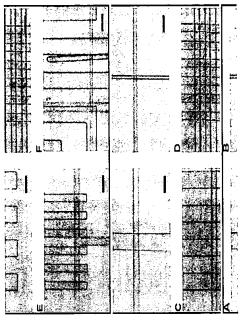


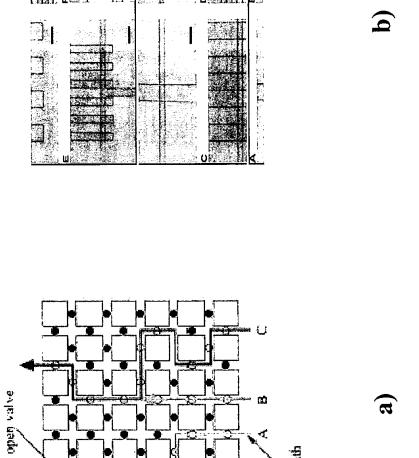
Figure 16











closed valve

particle path

Figure 18

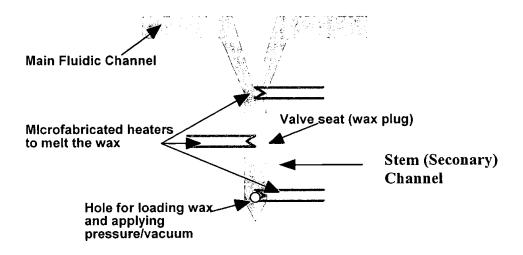


Figure 19

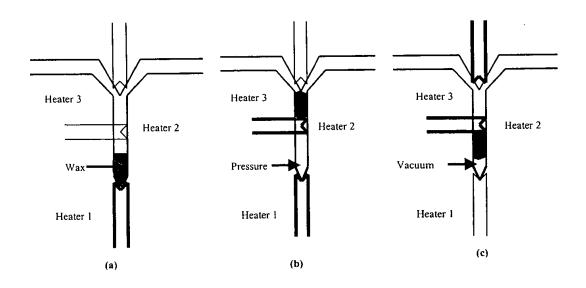


Figure 20

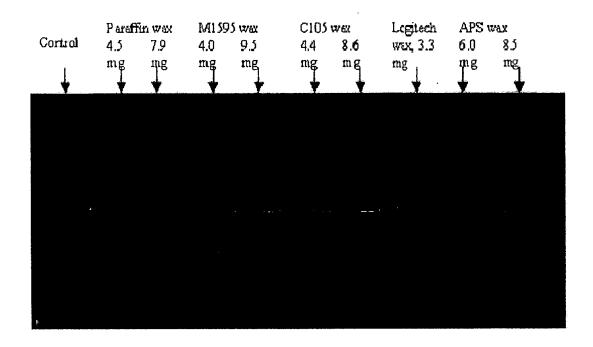


Figure 21

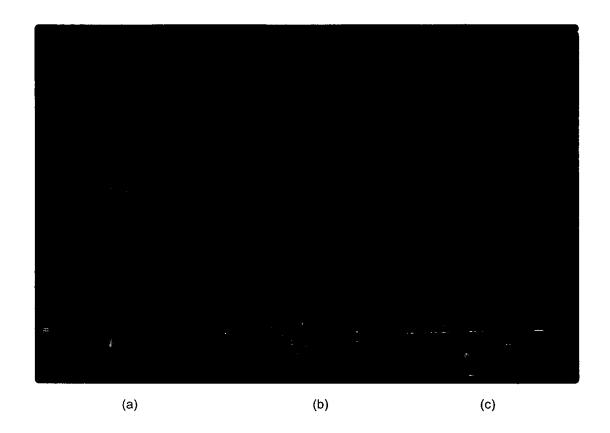


Figure 22

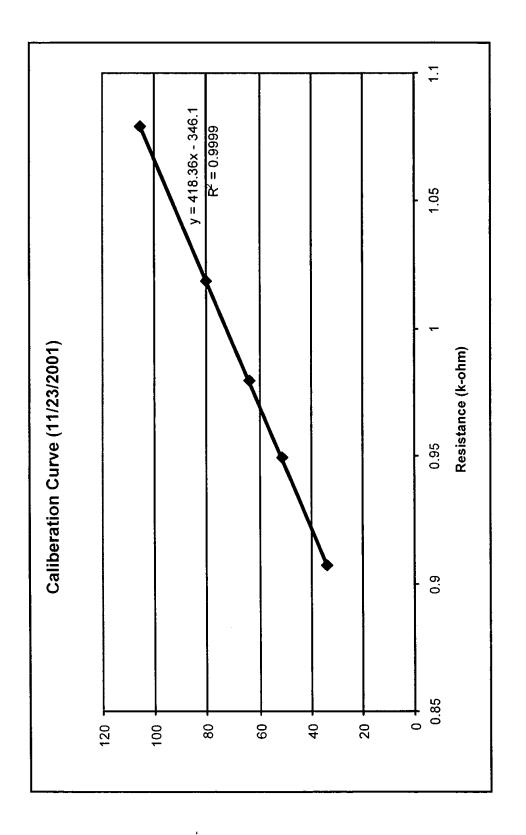


Figure 23

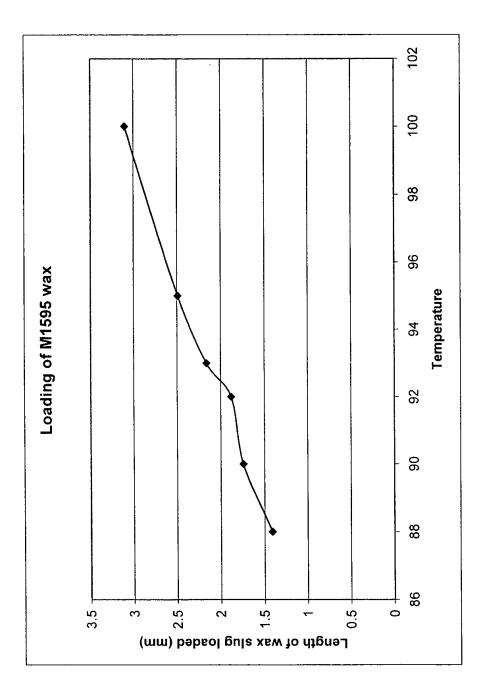


Figure 24

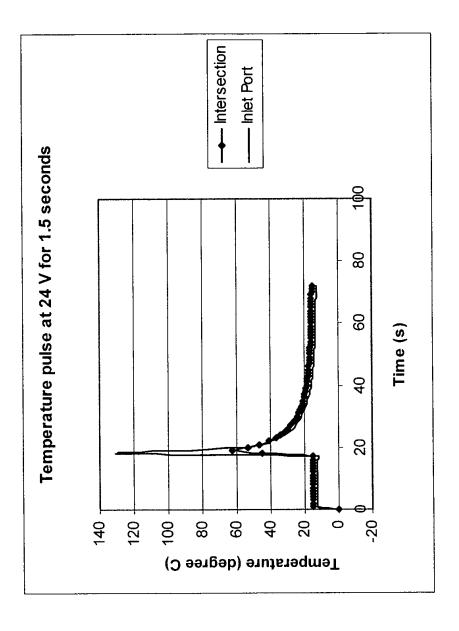


Figure 25

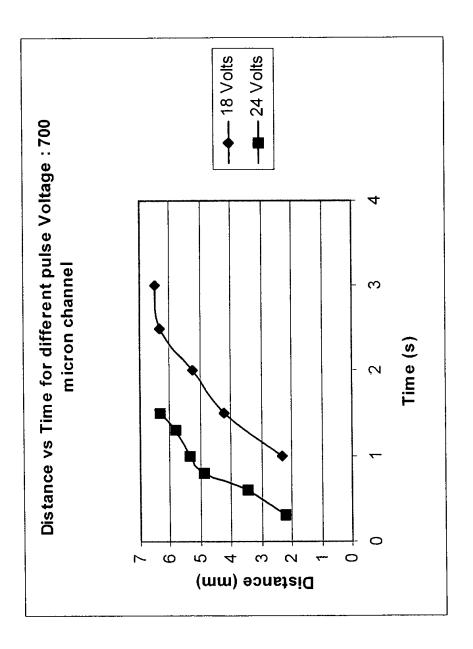


Figure 26a

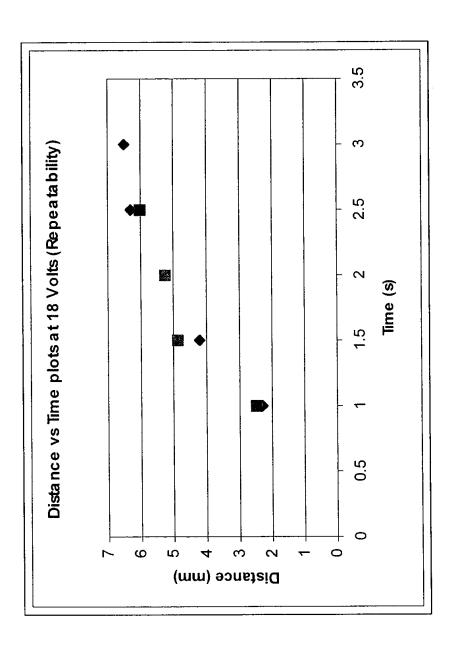


Figure 26b

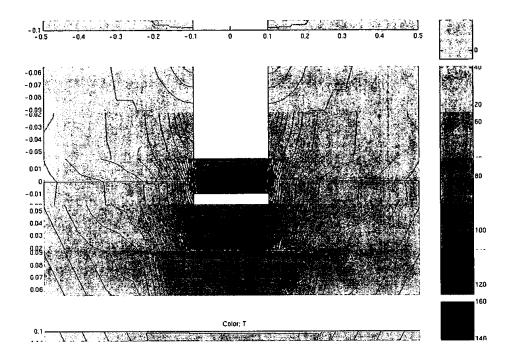


Figure 27